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This circular of information is intended for prospective students, and is designed to give them general information about Cornell University and its various colleges, the requirements for admission, tuition fees and other expenses, etc.

On the last page of the cover of this pamphlet, there is printed a list of the Official Publications of the University, which includes the special announcements of the various colleges. Every prospective student should consult this list and send at once for the special announcement of the particular college that he intends to enter. If he has not definitely decided in which college he will study, he should send for the special announcements of all the colleges among which his choice lies.

Any of these informational publications will be sent gratis and post free, and all inquiries are welcome and will be promptly answered. All preliminary correspondence by prospective freshmen should be addressed to The Registrar of Cornell University, Ithaca N. Y.

CORNELL UNIVERSITY

Cornell University was incorporated on April 27th, 1865 and was opened on November 7th, 1868.

The total attendance of students by years has been as follows:

1868, 412	1879, 463	1890, 1390	1901, 3293
1869, 563	1880, 399	1891, 1670	1902, 3457
1870, 609	1881, 384	1892, 1883	1903, 3423
1871, 597	1882, 405	1893, 2040	1904, 3841
1872, 539	1883, 447	1894, 2042	1905, 4122
1873, 509	1884, 575	1895, 2057	1906, 4225
1874, 532	1885, 649	1896, 2105	1907, 4465
1875, 542	1886, 829	1897, 2120	1908, 4859
1876, 561	1887, 1022	1898, 2543	1909, 5193
1877, 529	1888, 1229	1899, 2766	
1878, 505	1889, 1329	1900, 2980	

The officers of instruction and administration of Cornell University number 675. The campus and grounds of the University cover 1095 acres. The main University buildings in Ithaca are grouped around a great quadrangle flanked by Goldwin Smith Hall (history, languages, philosophy, etc.), Lincoln Hall (civil engineering), Sibley College (mechanical engineering), White Hall (architecture, mathematics), McGraw Hall (geology, vertebrate zoology), Morrill Hall (administration building), the University Library, Boardman Hall (law), and Stimson Hall (medicine), with Franklin Hall, (electrical engineering), Morse Hall (chemistry), Rockefeller Hall (physics), the buildings of the College of Agriculture, the Veterinary College, the Astronomical Observatory, the Gymnasium, and the Armory conveniently near. The Cornell University Medical College in the City of New York is located on First Avenue from 27th to 28th Sts.

The University is composed of the Graduate School, the School of Education, and the following colleges:

- The College of Arts and Sciences,
- The College of Law,
- The Medical College,
- The New York State Veterinary College,
- The New York State College of Agriculture, including also Dairy Industry, Animal and Poultry Husbandry, Home Economics, Rural Art, and Nature-Study,
- The College of Architecture,
- The College of Civil Engineering, including Hydraulic and Sanitary Engineering,
- The Sibley College of Mechanical Engineering and Mechanic Arts, including Electrical Engineering.

The University year in all the colleges is divided into two terms with vacations in the winter (at Christmas) and in the spring (at or near Easter). For the year 1910-11, the entrance examinations begin on September 19, instruc-

tion begins on September 30, and Commencement Day is June 22; for the year 1911-12, the corresponding dates are September 15, September 28, and a date in June yet to be determined.

The regular Summer Session of the University will begin in 1911 on July 6 and will close on August 16.

ADMISSION

For admission to the Graduate School and the Medical College, applicants should consult the special announcements of the Graduate School and the Medical College respectively.

All of the other colleges of Cornell University presuppose, on the part of the applicant for admission, an amount of training equivalent to that gained by four years' successful work in an approved high school.

The entrance requirements of these colleges are in many respects similar, but special modifications exist and the faculties of the respective colleges may make further modifications at any time to take effect after due notice has been given. A definite statement of the entrance requirements of the various colleges is given on p. 6.

Every applicant for admission to Cornell University must file at the Registrar's office either a certificate of his good moral character or, in case he has previously attended some other college or university without graduating from it, a certificate of his honorable dismissal by that institution.

Applications for admission to all the colleges except the Medical College and the Graduate School are entertained from the following three classes: (a) persons who desire to begin as freshmen in some college of the University, a regular course of study leading to the degree conferred by that college; (b) students who, having already attended some institution of collegiate rank, desire advanced standing in some college of the University; (c) persons who desire to register as special students not candidates for a degree. The conditions of admission for these three classes of persons are separately described on pages 4, 21, 21.

ENTRANCE REQUIREMENTS FOR FRESHMEN

Men who desire to begin as freshmen a course leading to a degree in one of the colleges of the University, must be at least sixteen years of age. Women must be at least seventeen years of age. In the College of Law the minimum age for both men and women is, for the four-year course, seventeen years; for the three-year course, eighteen years.

Every applicant for admission must, in one of the four following ways, show that he possesses a satisfactory knowledge of the subjects that are

required for admission to the particular college in which he plans to pursue his studies.

1. By passing the required Cornell University Entrance Examinations, see page 6.
2. By passing the College Entrance Examination Board Examinations in the required subjects, see page 16.
3. By passing the necessary Regents' Examinations (for students that have prepared in New York State), see page 18.
4. By presenting an acceptable school certificate, see page 19.

ENTRANCE SUBJECTS

The subjects and the maximum and minimum amounts of credit in each that may be offered for admission to the University are:

1a, 1b.	English	3 units
2a, 2b.	Greek Grammar and Xenophon	2 units
2c, 2d.	Greek Composition and Homer	1 unit
3a, 3b.	Latin Grammar and Caesar	2 units
3c, 3d.	Latin Composition and Cicero	1 unit
3e.	Virgil	1 unit
4a.	Elementary German	2 units
4b.	Advanced German	1 unit
5a.	Elementary French	2 units
5b.	Advanced French	1 unit
6a.	Elementary Spanish	2 units
6b.	Advanced Spanish	1 unit
7.	Ancient History*	$\frac{1}{2}$ unit or 1 unit
8.	Modern History* (from 814 A.D.)	$\frac{1}{2}$ unit or 1 unit
9.	American History* (inc. Civ. Gov.) ..	$\frac{1}{2}$ unit or 1 unit
10.	English History*	$\frac{1}{2}$ unit or 1 unit
11.	Elementary Algebra A	1 unit
12.	Elementary Algebra B	$\frac{1}{2}$ unit
13.	Advanced Algebra	$\frac{1}{2}$ unit
14.	Plane Geometry	1 unit
15.	Solid Geometry	$\frac{1}{2}$ unit
16.	Plane Trigonometry	$\frac{1}{2}$ unit
17.	Physics	1 unit
18.	Chemistry	1 unit
19.	Botany	1 unit
20.	Zoology (Vertebrate, Invertebrate)	1 unit
21.	Biology† (Zoology, Botany)	1 unit
22.	Physiography	1 unit
23.	Agriculture**	$\frac{1}{2}$ unit or 1 unit
24.	Drawing	$\frac{1}{2}$ unit or 1 unit

In the foregoing list a unit means five prepared recitations a week for one year of study; two hours of laboratory work is considered equivalent to one hour of prepared work.

*An applicant may not count more than $2\frac{1}{2}$ units of history.

†Biology may not be counted if either Botany (1 unit) or Zoology (1 unit) has been offered.

**Agriculture may not be counted for entrance to Arts and Sciences, Law, Civil Engineering, or Mechanical Engineering.

SUBJECTS AND UNITS REQUIRED BY THE SEVERAL COLLEGES

The subjects from the above list required by the several colleges for admission to the freshman class are indicated in the following table:

ARTS AND SCIENCES	LAW*	AGRICULTURE	VETERINARY†	ARCHITECTURE	CIVIL ENGINEER'G	MECHANICAL ENGINEER'G
English, 3	English, 3	English, 3	English, 3	English, 3	English, 3	English, 3
Foreign Languages, 4	Foreign Languages, 4	French, 3 or German, 3		French, 3 or German, 3	French, 3 or German, 3	French, 3 or German, 3
History, 1	History, 1	History, 1	History, 1**	History, 1	History, 1	History, 1
Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1
Elementary Algebra A, 1	Elementary Algebra A, 1	Elementary Algebra A, 1	Elementary Algebra A, 1	Elementary Algebra A, 1	Elementary Algebra A, 1	Elementary Algebra A, 1
The Arts College Entrance Diploma or the Science College Entrance Diploma issued by the Education Department of the State of New York will satisfy in full the entrance to Arts and Sciences, Law, or Agriculture.				Elementary Algebra B, $\frac{1}{2}$	Elementary Algebra B, $\frac{1}{2}$	Elementary Algebra B, $\frac{1}{2}$
				Solid Geometry, $\frac{1}{2}$	Solid Geometry, $\frac{1}{2}$	Solid Geometry, $\frac{1}{2}$
				Advanced Algebra, $\frac{1}{2}$	Advanced Algebra, $\frac{1}{2}$	Advanced Algebra, $\frac{1}{2}$
				Plane Trigonometry, $\frac{1}{2}$	Plane Trigonometry, $\frac{1}{2}$	Plane Trigonometry, $\frac{1}{2}$
Elective, 5	Elective 5	Elective, 6	Elective, 9	†Elective, 4	†Elective, 4	†Elective, 4
TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15

*A diploma or certificate of graduation from a university or college, or a certificate that the applicant has met the entrance requirements and satisfactorily completed one year of study in a university or college of approved standing is required for admission to the three year course in Law.

**A unit in Botany, Zoology, or Biology may be substituted.

†A Veterinary Student Certificate issued by the Education Department of the State of New York, Albany, N. Y., will be accepted for admission to Veterinary Medicine.

‡It is strongly recommended that at least three of these four elective units be offered in language and history.

For admission to the Graduate School and the Medical College, applicants should consult the special announcements of the Graduate School and the Medical College respectively.

1. CORNELL UNIVERSITY ENTRANCE EXAMINATIONS

Examinations in all subjects required for admission to the University are held in Ithaca and in New York City, in September, at the beginning of the first term (in 1910, September 19-23; in 1911, September 15-20).

Permits to take the examinations must be secured from the Registrar in Ithaca or from the Secretary of the Cornell Medical College in New York City. The permits show the exact dates and hours of the examinations, and should be obtained at least twenty-four hours before the date of the first examination to be taken. The results of the examinations will be reported to applicants that file stamped and addressed envelopes in accordance with the directions printed on the permits.

No examination of candidates for admission will be held by the University at any other times or places, except that, on application made to the Registrar on or before January 15 in any year, special entrance examinations in any of the University entrance subjects may be arranged to be held in Ithaca on or about January 25 of that year. The object of these special January entrance examinations is to permit the immediate beginning of the college course by students that complete their preparation at mid-year, and further, to allow at the beginning of the second term the matriculation of students who on account of slight shortages were unable to enter the University in the preceding September. Specimen copies of the September examination papers may be had on application to the Registrar.

Candidates may take all the entrance examinations in the same year, or they may divide them among two or three successive years.

If a student has failed to pass the Cornell or any other University Entrance Examination in any subject, he will not thereafter be allowed to offer Regents' credentials or a school certificate in that subject unless, subsequent to his failure, he shall have pursued the subject regularly in class for the full time required and shall have done the full amount of work required for entrance in the subject.

Subject-Matter of the Cornell Entrance Examinations

1. English (3 Units)

The examination, which will consist of the writing of compositions on assigned subjects, is designed to test the candidate's training in written expression. The examiner will consider particularly the following essentials: spelling, punctuation, and use of capital letters; grammatical correctness; idiomatic use of words; and structure of sentences and paragraphs.

The subjects of the compositions will be taken mainly from the books adopted by the Conference on Uniform Entrance Requirements in English. One or two of the compositions, however, are usually on subjects assumed to be within the candidate's general knowledge and experience.

The examination will be divided into two parts:

- A. Two hours devoted to writing compositions on subjects taken from ten of the books in the following list and on general topics. The list of books for 1911 and 1912 is as follows (substitutes acceptable to the Department of English may be offered):

Group I (two to be selected)

Shakespeare's *As You Like It*, *Henry V*, *Julius Cæsar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected)

Bacon's Essays; Bunyan's *The Pilgrim's Progress*, Part I; *The Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*.

Group III (one to be selected)

Chaucer's Prologue; Spenser's *Faerie Queene*, Book I; Pope's *The Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected)

Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *The House of Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens's *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected)

Irving's *Sketch Book*; Lamb's *Essays of Elia*; De Quincey's *Joan of Arc* and *The English Mail-Coach*; Carlyle's *Hero as Poet, Man of Letters, and as King*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected)

Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *The Courtship of Miles Standish*; Tennyson's *The Princess*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *The Boy and the Angel*, *One Word More*, *Hervé Riel*, *Pheidippides*.

The candidate is not expected to have a minute knowledge of the subject-matter of these books; and he may not offer mere knowledge of the books as a substitute for the ability to write good English. His aim should be to acquire through his reading the power to express his own thought. He is expected, however, to have such general knowledge of the books and their important parts as would come from fresh and thoughtful reading, and to use this knowledge readily in the examination.

The candidate is urged to read all of the books in the list, not merely the ten offered for examination; and in general not to be satisfied with the bare requirement but to read as widely as possible in standard English literature.

B. One hour devoted to questions on the following books:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso* or Tennyson's *Idylls of the King*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

This part of the examination will be upon subject-matter, form, and structure, and presupposes the thorough study of each of the books named. In addition, the candidate may be required to answer questions

involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

2. Greek (2 Units or 3 Units)

Candidates are examined in the following entrance requirements as defined by the College Entrance Examination Board. These are:

2a and b. Greek Grammar and Xenophon (2 Units)

2a. GREEK GRAMMAR: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, the subjunctive, and the optative. The examination will be based on the first two books of the *Anabasis*. 2b. XENOPHON: The first four books of the *Anabasis*.

2c and d. Elementary Greek Prose Composition and Homer (1 Unit)

2c. ELEMENTARY GREEK PROSE COMPOSITION: The examination will be based on the first two books of the *Anabasis*, and will consist principally of detached sentences to test the candidate's knowledge of grammatical constructions. 2d. HOMER: The first three books of the *Iliad* (omitting II, 494-end), and the Homeric constructions, forms, and prosody.

3. Latin (2, 3, or 4 Units)

Candidates are examined in the following entrance requirements as defined by the College Entrance Examination Board. These are:

3a and b. Latin Grammar and Caesar (2 Units)

3a. LATIN GRAMMAR: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive. 3b. CAESAR: Any four books of the *Gallic War*, preferably the first four.

3c and d. Elementary Latin Prose Composition and Cicero (1 Unit)

3c. ELEMENTARY LATIN PROSE COMPOSITION: Translation into Latin of detached sentences and very easy continuous prose based upon Caesar and Cicero. 3d. CICERO: Any six orations from the following list, but preferably the first six mentioned: The four orations against Catiline, Archias, The Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the fourteenth *Philippic*.

3e. Virgil (1 Unit)

The first six books of the *Æneid*, and so much prosody as relates to accent, versification in general, and dactylic hexameter.

4. German (2 Units or 3 Units)

The examination in Advanced German covers the examination in Elementary German.

4a. Elementary German (2 Units). The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five times a week during a period of two years. In this time he should have mastered the elements of German grammar and have acquired some proficiency in the translation of the language and in its use in speaking and writing.

4b. Advanced German (1 Unit). The examination assumes that the student has devoted to the subject five times a week for a period of one year in addition to having satisfied the elementary requirements, and that he has, during this third year, made a more detailed study of German grammar, has read some German classics, and has advanced in the use of the language in speaking and writing.

For more specific recommendations as to the nature and character of the three years' preparatory work in German, including texts to be read, applicants are referred to the publications of the College Entrance Examination Board.

5. French (2 Units or 3 Units)

The examination in Advanced French covers the examination in Elementary French. The attention of teachers preparing students in French is called to the valuable report of the Committee of Twelve of the Modern Language Association of America, published by D. C. Heath & Co., Boston.

5a. Elementary French (2 Units). The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five times a week during a period of two years. In this time he should have mastered the elements of French Grammar and have acquired some proficiency in the translation of the language and in its use in speaking and writing.

5b. Advanced French (1 Unit). The examination assumes that the student has devoted to the subject five times a week for a period of one year in addition to having satisfied the elementary requirements, and that he has, during this third year, made a more detailed study of French grammar, has read some French classics, and has advanced in the use of the language in speaking and writing.

For more specific recommendations as to the nature and character of the three years' preparatory work in French, including texts to be read, applicants are referred to the publications of the College Entrance Examination Board.

6. Spanish (2 Units or 3 Units)

The examination in Advanced Spanish covers the examination in Elementary Spanish.

6a. Elementary Spanish (2 Units). (i) Elementary grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax. (ii) A composition exercise in Spanish to illustrate the principles of grammar. (iii) The reading and accurate rendering into good English of

300 pages of graduated texts, with translation into Spanish of easy variations of the sentences read. (iv) Careful drill in pronunciation and writing Spanish from dictation.

Suitable texts for the elementary work are: Moratin's *El Sí de las Niñas*, Caballero's *La Familia de Alvareda*, Alarcón's *El Capitan Veneno*, and Valera's *El Pájaro verde*.

6b. Advanced Spanish (1 Unit). (i) The reading in addition to the elementary work, of from 400 to 500 pages of modern prose from different authors (a total, with the elementary requirement, of 600 to 750 pages). (ii) Practice in translating Spanish into English, and English variations of the text into Spanish. (iii) Continued study of the elements of grammar and syntax. (iv) Mastery of all but the rare irregular verb forms and of the simpler uses of the moods and tenses. (v) Writing of Spanish from dictation and memorizing of easy short poems.

Suitable texts for the advanced work are: Galdós's *Doña Perfecta* and *Marianela*; Valera's *Pepita Jiménez*; Alarcón's *El Final de Norma*; Valdés's *José*.

7-10. History ($\frac{1}{2}$ Unit to 2 $\frac{1}{2}$ Units)

The examinations in history will be so framed as to require comparison and the use of judgment on the pupil's part, rather than the mere use of memory. The examinations will presuppose the use of good text-books, collateral reading, and practice in written work. Geographical knowledge will be tested by direct questions or by requiring the location of places and movements on an outline map.

7. Ancient History ($\frac{1}{2}$ Unit or 1 Unit)

For a full unit of credit, the subject of the examination will be ancient history with special attention to Greek and Roman history, but including also the outlines of ancient oriental history and of early medieval history to the death of Charles the Great (814 A. D.). For a half unit of credit, applicants may be examined on either of the following: a. Greek history to the death of Alexander the Great; b. Roman history to 476 A. D.

8. Modern History ($\frac{1}{2}$ Unit or 1 Unit)

For a full unit of credit, the subject of the examination will be medieval and modern European history, from the death of Charles the Great to the present time. For a half unit of credit, applicants may be examined on either of the following: a. Medieval history; b. Modern European history.

9. American History and Civil Government ($\frac{1}{2}$ Unit or 1 Unit)

American history from the European discovery of the new world, with especial attention, in the seventeenth and eighteenth centuries, to the British Empire in America. After the Revolution, the history and civil government of the United States only need be studied.

10. English History ($\frac{1}{2}$ Unit or 1 Unit)

English history, from the advent of the English in Britain, in the fifth century, to our own day.

11-16. Mathematics (2 to 4 Units)

The requirements in mathematics are substantially as defined by the College Entrance Examination Board.

For students that expect to continue their mathematical studies especially in the engineering colleges, it is not sufficient to have once known the preparatory mathematical subjects. The student must know them at the time he begins his work in the University. It is therefore very important that these subjects be carefully reviewed just prior to entrance.

A knowledge of the metric system of weights and measures is assumed in all the examinations in mathematics.

11. Elementary Algebra A ($\frac{1}{2}$ Unit)

The examination will require a thorough knowledge of the four fundamental operations; factoring, including the determination of the highest common factor and the solution of equations by factoring; fractions, including complex fractions, and an elementary treatment of ratio and proportion; the binomial theorem for positive integral exponents (without proof); radicals, including the extraction of the square root of polynomials and of numbers; the solution of equations of the first degree (numerical and literal, integral and fractional) involving one or more unknown numbers; easy quadratic equations, solved both by factoring and by completing the square; and simple cases of simultaneous equations one of which is quadratic.

Emphasis is laid upon translating verbally stated problems into equations, solving these, and interpreting the results.

12. Elementary Algebra B ($\frac{1}{2}$ Unit)

The highest common factor by division; surds and imaginary numbers, including the square root of binomial surds and the cube root of polynomials and of numbers; the theory of quadratic equations, including maximum and minimum; the solution of equations and problems (in one or more unknown numbers) which can be made to depend upon quadratics; the theory of exponents; the proof of the binomial theorem for positive integral exponents; graphical representation and solution of equations; and ratio, proportion, variation, and the progressions.

13. Advanced Algebra ($\frac{1}{2}$ Unit)

The examination will require such knowledge as may be gained from one of the better text-books on this subject, including, in addition to a thorough review of elementary algebra, permutations and combinations, inequalities, mathematical induction, irrational and complex numbers with graphical representation of sums and differences of the latter, elementary treatment of determinants including the use of minors and the solution of linear equations, undetermined coefficients not involving infinite series, partial fractions, and logarithms (not including logarithmic series).

The solution of numerical equations of higher degree, and so much of the theory of equations as is necessary for their treatment, including graphical methods, Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

Special attention should be paid, throughout the course, to applications under each topic, and emphasis should be laid upon accuracy and precision.

14. Plane Geometry (1 Unit)

The usual theorems and constructions contained in the better text-books on this subject, including the general properties of plane rectilinear figures, the circle and the measurement of angles, similar polygons, areas, regular polygons, the measurement of the circle, the solution of original exercises, including loci problems, and the mensuration of lines and plane surfaces.

15. Solid Geometry ($\frac{1}{2}$ Unit)

The usual theorems and constructions contained in the better text-books on this subject, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of original exercises including loci problems, and the mensuration of surfaces and solids.

16. Plane Trigonometry ($\frac{1}{2}$ Unit)

The definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of the principal formulas, especially those for the sine, cosine, and tangent of the sum or difference of any two angles whatever, and of double angles and half angles; also the product expressions for the sum of two sines or of two cosines, etc; the transformation of trigonometric expressions by means of these formulas, the use of inverse functions, and the solution of right and oblique triangles, together with simple applications.

17. Physics (1 Unit)

The examination in physics assumes that the student has completed a course in school of at least five hours a week for one year, not less than half of which time should have been devoted to individual laboratory practice, mainly quantitative in nature. He should be able to solve simple numerical problems involving elementary principles. No special outline and no arbitrary list of experiments is prescribed. It is expected that the work will be fairly well distributed among the various topics and that it will not differ to any considerable extent from the requirements of the College Entrance Board.

18. Chemistry (1 Unit)

The examination in chemistry assumes that the student has completed a full year's course in this subject. This course should include lecture table demonstrations, recitations from a suitable text-book, and individual laboratory work comprising at least forty exercises (80 actual hours).

The instruction should be thorough rather than comprehensive, and to this end, the ground to be covered should be restricted to:

(a) The study of the preparation and properties of the following elements: hydrogen, oxygen, nitrogen, chlorine, bromine, iodine, carbon, sulphur, silicon, phosphorus, sodium, calcium, copper, aluminum, and iron; the preparation and properties of the more important compounds of these elements; the consideration of certain important topics, such as the atmosphere, combustion, acids, bases, salts, oxidation, reduction, crystallization, nascent state, catalysis, electrolysis, symbols, formulas, equations, valency, solution, and the manufacture of illuminating gas.

Only such commercial processes as illustrate fundamental principles should be considered.

(b) A careful and thorough study of the important laws and principles pertaining to the following subjects: combining proportions by weight and volume; variation of gas volumes with changes in temperature or pressure; conservation of matter and energy; structure of matter (atomic theory). It is unwise to accord the subjects mass action, equilibrium, and ionization, more than mere mention in an elementary course. Moreover, the instruction should not be extended to cover the elements of qualitative analysis, for the time at the disposal of the high-school teacher is usually no more than sufficient to cover the field of elementary inorganic chemistry.

The student should keep a note book record of his laboratory experiments and this should be written up in the laboratory at the time the experiments are performed.

19. Botany (1 Unit)

The examination assumes a knowledge of the general laws and fundamental principles of plant nutrition, assimilation, and growth, as exemplified by plants chosen from the different groups, as well as of the general comparative morphology and the broader relationship of plants.

The following synopsis will suggest the topics of preparatory study: the general fundamental principles of plant physiology; general morphology, including form, methods of reproduction, propagation, etc., of selected representatives of the algae, fungi, liverworts, mosses, ferns, and seed plants; special morphology of the higher plants.

20. Zoology (1 Unit)

The examination in zoology will consist of two parts:

I. **INVERTEBRATE ZOOLOGY.** The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five hours a week during a half-year. The greater part of this time should have been devoted to laboratory practice in the observation of living forms and to dissection. Laboratory notes and drawings should be carefully made throughout the course.

II. **VERTEBRATE ZOOLOGY.** The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five hours a week during a half-year. The greater part of this time should have been devoted to laboratory practice in the observation of living forms and to dissection. Laboratory notes and drawings should be carefully made throughout the course.

21. Biology (1 Unit)

The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five periods a week during a year. A large part of this time should have been devoted to laboratory practice. Laboratory notes and drawings should be carefully made throughout the course.

22. Physiography (1 Unit)

The ground covered in the examination on text-book work is essentially that outlined by the College Entrance Examination Board, the principal topics being the earth as a planet, the ocean, the atmosphere, and the lands, as treated in the more modern standard text-books on physical geography. The emphasis of the instruction in preparatory school should have been on the human relationships to physiographic conditions.

Some work with books of reference is assumed to have been done in preparatory school, and the examination may test the student with reference thereto; but a certification of the amount of such work, signed by the teacher, will be taken as evidence and will be considered as a part of the examination. No definite list of reference books is prescribed. In general it may be said, however, that books or papers relating to the physiography of the region where the study is carried on, or those relating to phenomena illustrated in that region, should certainly be included. The standard text-books give ample references to suitable books and papers bearing on the various physiographic provinces and phenomena of the country.

Two periods a week for an entire year should have been devoted to laboratory and field work. The laboratory work should be divided between the study of the atmosphere and the study of the land. The student should be familiar with weather maps and topographic maps, and be able to interpret them. He should be able to tell what physiographic forms are represented on typical maps. The student should do enough field work to understand the physiography of the region where he studies. A note book record of the laboratory and field work should be carefully kept.

For further suggestions concerning laboratory work, the Syllabus of the College Entrance Examination Board and the Regents' Syllabus for the Schools of New York State may be consulted.

23. Agriculture ($\frac{1}{2}$ Unit or 1 Unit)

The examination assumes that the candidate has done the equivalent of the work outlined in the Syllabus for Secondary Schools—Agriculture, published by the New York State Education Department, 1907 (Albany) or in A Secondary Course in Agronomy, Circular 77 (revised), 1908, Office of Experiment Stations, United States Department of Agriculture. Agriculture may not be used for entrance to Arts and Sciences, Law, Civil Engineering, or Mechanical Engineering.

24. Drawing ($\frac{1}{2}$ Unit or 1 Unit)

The entrance requirement in drawing includes simple, plane, and solid geometrical figures, simple still life and groups or pieces of machinery, and

a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. The preparation may also include the drawing of simple pieces of architectural ornament, decoration, and simple plant forms, etc. This requirement represents about 300 hours of actual work (which may be entirely freehand drawing, entirely mechanical drawing, or part freehand and part mechanical) for the credit of 1 unit, or about 150 hours for the half unit.

Candidates taking the examination must present samples of their work, and a teacher's statement showing time and proficiency.

2. COLLEGE ENTRANCE EXAMINATION BOARD EXAMINATIONS

The examinations of the College Entrance Examination Board, held in Ithaca and elsewhere in June of each year, are accepted as the full equivalents of the Cornell University Entrance Examinations in the corresponding subjects.

All certificates of the College Entrance Examination Board should be sent by mail to the Registrar of Cornell University, Ithaca, New York, as early as possible in the summer before the applicant intends to enter. To insure consideration, they should reach him not later than the first of September.

If a student has failed to pass the College Entrance Board Examination in any subject, he will not thereafter be allowed to offer Regents' credentials or a school certificate in that subject unless, subsequent to his failure, he shall have pursued the subject regularly in class for the full time required and shall have done the full amount of work required for entrance in the subject.

Information regarding the requirements of the College Entrance Examination Board as to note books may be obtained from the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y.

The following table shows the Cornell University entrance subjects with the equivalent subjects of the College Entrance Examination Board.

Cornell University Entrance Subjects	Equivalent College Entrance Board Subjects
1. English.	a, b. English.
2a. Greek Grammar.	a, i. Greek Grammar.
2b. Xenophon.	b. Xenophon, <i>Anabasis</i> , Books I-IV.
2c. Elementary Greek Prose Composition.	a, ii. Elementary Greek Prose Composition.
2d. Homer.	c. Homer, <i>Iliad</i> , Books I-III.
3a. Latin Grammar.	a, i. Latin Grammar.
3b. Caesar.	b. Caesar— <i>Galic War</i> , Books I-IV.
3c. Elementary Latin Prose Composition.	a, ii. Elementary Latin Prose Composition.
3d. Cicero.	c. Cicero—Six orations.
3e. Virgil.	d. Virgil— <i>Aeneid</i> , Books I-VI.
4a. Elementary German.	a. Elementary German.

4a and b. Advanced German.	b. Intermediate German.
5a. Elementary French.	a. Elementary French.
5a and b. Advanced French.	b. Intermediate French.
6a. Elementary Spanish.	Spanish.
6a and b. Advanced Spanish.	_____
7. Ancient History (to 814 A.D.).	a. Ancient History.
8. Modern History (from 814 A.D.).	b. Medieval and Modern History.
9. American Hist. (including Civil Government).	d. American History and Civil Government.
10. English History.	c. English History.
11. Elementary Algebra, A.	a. Elementary Algebra, i.
12. Elementary Algebra, B.	a. Elementary Algebra, ii.
13. Advanced Algebra.	b. Advanced Algebra.
14. Plane Geometry.	c. Plane Geometry.
15. Solid Geometry.	d. Solid Geometry.
16. Plane Trigonometry.	f. Plane Trigonometry.
17. Physics.	Physics.
18. Chemistry.	Chemistry.
19. Botany.	Botany.
20. Zoology.	Zoology.
21. Biology.	_____
22. Physiography.	Geography.
23. Drawing.	Drawing.
24. Agriculture.	_____

The examinations of the College Entrance Examination Board will be held at Ithaca, and at various other places, June 19-24, 1911. A list of places at which the examinations will be held will be published about March 1, 1911, by the Secretary of the Board. Requests that the examinations be held at particular points, to receive proper consideration, should be submitted to him not later than February 1, 1911.

The examination fee at points in the United States and Canada is five dollars; at points outside of the United States and Canada, fifteen dollars, for each candidate examined.

Each candidate that desires to take the examinations of the Board must make application to its Secretary upon a blank to be obtained gratis from him. Applications for examinations at points in the United States on or east of the Mississippi River must reach the Secretary of the Board not later than Monday, June 5, 1911; at other points in the United States and in Canada, not later than Monday, May 29, 1911; at points outside of the United States and Canada, not later than May 15, 1911.

Applications received later than the prescribed dates will be accepted when it is possible to arrange for the examination of the candidates, but only upon payment of five dollars in addition to the usual examination fee. Candidates that file belated applications do so at their own risk.

Teachers, parents, and candidates for examination who desire more specific information concerning the work of the Board, as well as those who wish to procure blank forms of application for examination, are requested to address College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y.

3. ENTRANCE BY REGENTS' CREDENTIALS

Regents' credentials issued by the Department of Education of the State of New York certifying that the student has passed a subject and showing a mark of at least sixty per cent will be accepted in lieu of passing the Cornell Entrance Examination in the corresponding subject.

All Regents' credentials should be sent by mail to the Registrar of Cornell University, Ithaca, New York, as early as possible in the summer before the applicant intends to enter. To insure consideration, they should reach him not later than the first of September.

The following table shows the Cornell Entrance subjects with the corresponding Regents' equivalents:

Cornell University Entrance Subjects	Regents' Equivalents
1a. English A. }	English 1st, 2d, and 3d years.
1b. English B. }	English 4th year.
2a. Greek Grammar. }	First-year Greek and Greek Grammar.
2b. Xenophon. }	Xenophon.
2c. Greek Comp. }	Elem. Greek Composition.
2d. Homer. }	Homer.
3a. Latin Grammar. }	First-year Latin and Latin Grammar.
3b. Caesar. }	Caesar.
3c. Latin Composition. }	Elem. Latin Composition.
3d. Cicero. }	Cicero.
3e. Virgil.	Virgil.
4a. Elem. German.	German 1st and 2d years.
4b. Adv. German.	German 1st, 2d, and 3d years.
5a. Elem. French.	French 1st and 2d years.
5b. Adv. French.	French 1st, 2d, and 3d years.
6a. Elem. Spanish.	Spanish 1st and 2d years.
6b. Adv. Spanish.	Spanish 1st, 2d, and 3d years.
7. Ancient History.	Ancient History 3-5 counts.
8. Modern History.	European History 3-5 counts.
9. Am. History, Civics.	American Hist. and Civics 3-5 counts.
10. English History.	Hist. of Britain and Ireland 3-5 counts.
11. Elem. Algebra A.	Elementary Algebra.
12. Elem. Algebra B.	Intermediate Algebra.
13. Advanced Algebra.	Advanced Algebra.
14. Plane Geometry.	Plane Geometry.
15. Solid Geometry.	Solid Geometry.
16. Plane Trigonometry.	Trigonometry.
17. Physics.	Physics 5 counts.
18. Chemistry.	Chemistry 5 counts.
19. Botany.	Advanced Botany 5 counts.
20. Zoology.	Advanced Zoology 5 counts.
21. Biology.	Biology 5 counts (or Physiology 2½, and Bot. 2½ or Zool. 2½).
22. Physiography.	Physical Geography 5 counts.
23. Drawing.	El. and Adv. Drawing 3-6 counts.
24. Agriculture.	Agriculture 3 counts = ½ Cornell unit.

A Regents' diploma will admit to the University only when the subjects satisfy the entrance to the college concerned (see page 7). But the Arts College Entrance Diploma and the Science College Entrance Diploma issued by the Department of Education of the State of New York satisfy in full the requirements for admission to the College of Arts and Sciences, the College of Agriculture, and the four years' course of the College of Law. The Veterinary Student Certificate issued by the Department of Education of the State of New York admits to the Veterinary College.

Note books and teachers' statements are in general not required, and should not be sent unless they are in individual cases specifically asked for by the Registrar of the University.

The Department of Education, Albany, N. Y., will on request issue to any student a statement showing all subjects passed by him to date. All Regents' credentials should be secured as soon as possible after the examinations have been passed and should be forwarded immediately to the Registrar of the University. They should not be retained for personal presentation in Ithaca.

Candidates for admission on Regents' credentials should not assume that their credentials will be accepted; on the contrary, the candidates should appear at the Cornell Entrance Examinations held in Ithaca and in New York City in September unless they have been formally notified of the acceptance of their credentials. Special entrance examinations will not be given except as specified on page 7.

If a student has failed to pass in any entrance subject the Cornell or any other University Entrance Examination, or the College Entrance Board Examination, or the Regents' examination, he will not thereafter be allowed to offer Regents' credentials in that subject unless, subsequent to his failure, he shall have pursued the subject regularly in class for the full time required and shall have done the full amount of work required for entrance in the subject.

Admission on Regents' credentials is in all cases provisional. If, after admission to the University, a student fails in any subject dependent upon an entrance subject for which Regents' credentials have been accepted, credit for that entrance subject may be cancelled.

4. ENTRANCE BY SCHOOL CERTIFICATE

Certificates of work done in public or in private schools, in or out of the State, will be accepted in lieu of passing entrance examinations, if the University authorities are satisfied regarding the standing of the school and if the applicant has completed a full regular course in the school and has been duly graduated after at least one year in the school.

The University does not engage in advance to accept the certificate of a school and the previous acceptance of certificates does not establish a permanent right to acceptance, but merely raises the presumption that similar certificates will be accepted.

Three separate steps must be taken before a student of any school will, on its certificate, be admitted to a college of Cornell University:

(a) The principal of the school must by formal application secure the certificate privilege for his school.

(b) The principal of the school must submit a school certificate duly filled out for the individual candidate for admission.

(c) The candidate himself must make a personal application for admission to the particular college of Cornell University in which he intends to study. Official blanks for each of the above purposes may be obtained from the Registrar of Cornell University and when duly filled out, should be returned to him.

The school certificate should be forwarded by the principal as soon as possible after the graduation of the candidate. The application for the certificate privilege should, unless previously granted, accompany the school certificate. The candidate's personal application for admission to a particular college should be sent as early as possible after the candidate has decided in which college of Cornell University he desires to study. The application will be considered merely as a declaration of intention, and will constitute no obligation upon the prospective student.

The school certificate should include all the subjects that the candidate has satisfactorily completed in the school, whether or not they are required by the particular college in which the candidate proposes to study; neglect to comply with this regulation may entail serious inconvenience and disappointment to the student. The school certificate may include subjects in which an examination has been passed for admission to the school. No additional or supplementary certification will be considered after the end of the first college term.

Note books are in general not required to be submitted, and should not be sent unless they are in individual cases specifically asked for by the Registrar of the University.

Subjects in which the work has been done privately outside of the regular school curriculum, even if under the direction of teachers in the school, should not be included in the certificate.

The candidate must take his entrance examinations at Cornell University (in Ithaca or in New York City) in September if by that time he has not been notified that his school certificate has been accepted. Special entrance examinations will not be given except as specified on p. 7.

If a student has failed to pass in any entrance subject the Cornell or any other University Entrance Examination, or the College Board Entrance Examination, or the Regents' examination, he will not thereafter be allowed to offer a school certificate in that subject unless, subsequent to his failure, he shall have pursued the subject regularly in class for the full time required and shall have done the full amount of work required for entrance in the subject.

Admission on school certificates is in all cases provisional. If, after admission to the University, a student fails in any subject dependent upon an entrance subject for which a school certificate has been accepted, credit for that entrance subject may be cancelled.

All communications and requests in connection with admission on school certificate should be addressed to the Registrar of the University.

The University will welcome any special or personal information that school principals care to furnish in connection with individual applicants for admission.

SURPLUS ENTRANCE CREDIT

Credit towards a degree for work done in a preparatory school, upon subjects which may be offered for entrance to the University, will be given to those students only who, in addition to satisfying all entrance requirements, pass separate examinations in the subjects for which they seek college credit. These examinations will cover substantially the same ground as the University courses in the corresponding subjects. An applicant that desires a college credit examination of this kind must apply to the Registrar as early as possible, and in no case later than September 12th, 1911, specifying which fifteen units he intends to offer in satisfaction of the entrance requirements, and upon what other entrance subjects he wishes to be examined for credit.

In case he fails to satisfy the entrance requirements in any one or more of the units upon which he has proposed to enter, but passes the credit examination in any other subject or subjects, he may use the latter towards satisfying the entrance requirements, but in that case he cannot also receive college credit therefor. The college credit examinations will be held in September, on the dates set for the entrance examinations in the same subjects.

ADMISSION TO ADVANCED STANDING

A student who, having already attended some college or university, desires advanced standing in a regular course in some college of Cornell University should file with the Registrar of Cornell University, on an official blank to be obtained from him, a formal application for admission to advanced standing in one of the colleges of the University, along with an official certificate from the college or university already attended, of (1) his honorable dismissal, (2) his entrance examinations in detail, (3) his terms of attendance and the amount of work that he has completed, and (4) a detailed statement of the courses pursued for which he desires credit at Cornell. He should send also a catalogue of the institution, writing on it his name and marking the entrance requirements that he has satisfied and each subject that he has completed. All applicants for advanced standing should consult the special announcement of the college in which they propose to study.

ADMISSION OF SPECIAL STUDENTS

A person, ordinarily one of considerable maturity, may under certain circumstances, even without satisfying the entrance requirements, be admitted to one of the colleges of Cornell University as a special student not candidate for a degree. The applicant must give evidence of ability to do creditable work in the college and his application for admission must be recommended by the department in which he proposes to do the main part of his work.

If a person admitted as a special student without satisfying the entrance requirements subsequently satisfies these requirements, he may be graduated under the ordinary regulations that obtain in the particular college in which he is studying. He will not be permitted, however, to make up deficiencies in entrance subjects by attending University instruction in those subjects.

Candidates for admission as special students must file their applications directly with the Dean of the particular college in which they propose to study.

Special students in the College of Arts and Sciences must be at least twenty-three years of age; in the College of Law, twenty years of age; in the College of Architecture and in Sibley College, twenty-one years of age.

The College of Civil Engineering admits as special students persons at least twenty-one years of age that are college graduates and that intend to pursue advanced work without being candidates for a degree.

Special students in the College of Agriculture, if residents of the State of New York, must be at least eighteen years of age. No others will be accepted under the age of twenty-three years unless they can satisfy all the entrance requirements for the regular course.

THE BEGINNING OF THE COLLEGE COURSE

The first formal step at the beginning of the college career is the act of registration in the University. September 25 and 26 are the days for the registration of new students in 1911.

Each candidate, to be entitled to register, must present a formal registration permit, which is a card issued by the Registrar and sent to the candidate as soon as the requirements for entrance have been satisfied. This registration permit is ordinarily sent direct to the home address of the prospective student if he is entering by school certificate, College Entrance Board examinations, or Regents' credentials. If the candidate is entering by the September Cornell examinations, in New York City or in Ithaca, the registration permit is ordinarily sent to his local address as soon as the requisite examinations have been passed.

If the candidate is entitled to this registration permit but has for any reason not received it by September 25, he should call in person at the Registrar's office and procure it.

The registration permit bears on its face all the necessary directions for the candidate's registration in the University.

No candidate will be allowed to register after September 26 unless he has first obtained the special permission of the Dean of the college in which he purposes to study.

With a young man's first registration in the University there begins for him a period of greater personal responsibility than he has ever before been called upon to face. He should realize that the success of his college career depends in large measure on his individual ideals, his individual industry, and his individual determination to make the best possible use of his opportunities. Cornell University offers its equipment; its officers of

instruction and administration stand ready to help with their personal encouragement and advice; but after all, the ultimate responsibility for success or failure is on the individual student himself.

FIRST YEAR SUBJECTS AND STUDIES

With reference to details of curriculum, subjects to be studied, requirements for the degree, etc., the prospective student should consult the special announcement of the particular college that he intends to enter. Several of the colleges publish hand books of information for their students. These may be obtained from the Deans of the several colleges.

In the College of Arts and Sciences there is a considerable range of choice in studies to be pursued. An Administrative Board in charge of Freshmen and Sophomores advises the entering freshman in his selection of studies. In the other colleges, where there is a more or less fixed curriculum, this control is exercised directly by the Dean of the College or by a special class adviser.

No college in the University undertakes to send to parents or guardians regular reports of the progress and standing of the students under its control. Students in the University are accepted as responsible young men and young women and the constant effort is made to inspire and develop in them the sense of this personal responsibility and the realization that the success or failure of their college course is, in the last analysis, a matter of their own making.

PAYMENTS TO THE UNIVERSITY

Annual Tuition Fees

	Regular Students.	Special Students.
Graduate Department (General)	\$100	—
Graduate Department (Technical and Architecture)	150	—
College of Arts and Sciences	100	\$125
College of Law	100	125
Medical College	150	150
Veterinary College { For free tuition }	100	125
College of Agriculture { see page 24 }	100	125
College of Architecture	150	150
College of Civil Engineering	150	150
Sibley College	150	150

Students upon registering become liable for the tuition fee for the term.

The \$100 tuition is payable in instalments of \$55 at the beginning of the first term and \$45 at the beginning of the second term; the \$125 fee is payable similarly in instalments of \$70 and \$55; the \$150 fee, in instalments of \$85 and \$65; in the Medical College in New York City, the entire fee is payable at the beginning of the year.

The tuition of any student that withdraws within twenty days after the first registration day for reasons satisfactory to the Treasurer and the Registrar, may be refunded.

A student that withdraws from the University, for reasons satisfactory to the Treasurer and the Registrar, on or before November 15th or March 15th, may have refunded one-half of the tuition fee for the current term.

Students registering after December 1st shall pay for the balance of the first term two-thirds of the tuition fee for the first term. Students registering after April 1st shall pay for the balance of the second term two-thirds of the tuition fee for the second term.

Tuition is free to New York State students in the State Veterinary College pursuing the regular Veterinary course who for a year or more immediately preceding admission to the Veterinary College have been residents of New York State; to students pursuing the prescribed course in Agriculture and intending to complete that course; and to special and graduate students in Agriculture taking at least two-thirds of their entire work in the College of Agriculture.

No student who has received free tuition under the above regulations will be allowed to change to a course for which tuition is charged without first paying to the Treasurer of the University tuition fees for the full time spent in the free tuition course.

Other Fees

A matriculation fee of \$5 is charged all students on entering the University.

Every student (except those registered in the Medical College in New York City) is charged an Infirmary fee of \$2.00 a term, payable at the beginning of each term. Students in the winter courses in agriculture, etc. are required to pay the Infirmary fee for one term. In return for the Infirmary fee, any sick student is on his physician's certificate admitted to the Infirmary, or in the case of those contagious diseases which under present rules cannot be there cared for, to the Ithaca City Hospital, if receivable under its rules, and is given without further charge a bed in a ward, board, and ordinary nursing, for a period not exceeding two weeks in any one academic year.

Extra charges are made for private rooms, special foods, and special nurses. If a sick student who has not received two weeks' service in the year is refused admittance to either the Infirmary or the City Hospital, by reason of lack of accommodation, he is entitled to a refund of the fee for both terms.

Students in the Summer Session have all the privileges of admission to the Infirmary. They pay no fee in advance, but are liable for regular charges for services rendered.

Each student in the Department of Physical Culture is required to pay a locker fee of \$2 a term.

Students taking work in Sibley College are charged \$10 a term for material used in Sibley College shops and laboratories.

A fee of \$7.50 a term, to cover cost of materials used, is required of all students in Agriculture, except those in the first two years of the regular course.

A graduation fee of \$10 is required of each person taking a first or undergraduate degree. This fee must be paid at least ten days before Commencement. The amount will be refunded should the degree not be conferred.

A graduation fee of \$20 is required of each person taking an advanced

degree. This fee must be paid at least ten days before Commencement. The amount will be refunded should the degree not be conferred.

Every person taking laboratory work or laboratory courses must pay to the Treasurer the fee or the deposit for the materials to be used in the work.

All students in the University are held responsible for any injury done by them to its property.

A student that fails to pay his indebtedness to the University within twenty days after it is due will be dropped from the University.

EXPENSES

A student's expenses at Cornell, beyond the stated University fees and a small outlay for books and instruments, depend in large measure on his personal tastes and habits. His expenses, other than those for board and room, may be estimated at the normal rate prevailing throughout that section of the country in which Ithaca is situated.

Parents and guardians are earnestly cautioned against providing their sons and wards with an excessive amount of pocket money. Many young men have been fatally handicapped in their college careers by over indulgence in this respect.

The University possesses no dormitories for men students. There are, however, in Ithaca many private boarding and rooming houses near the University Campus. In these the cost of board and furnished room, with heat and light, varies from \$5 to \$12 a week. By the formation of clubs, students are sometimes able to reduce their expenses for room and board.

Before engaging rooms, students should carefully examine the sanitary conditions and should particularly insist on satisfactory and sufficient fire-escapes. In general, room contracts should not be made for longer than a single term. New students are advised to come to Ithaca a few days in advance of the beginning of their University duties in order that they may have ample time to secure room and board before the opening of the college year. The Cornell University Christian Association offers its assistance to new students in the selection of rooming and boarding houses.

The dormitories for women students are Sage College and Sage Cottage. In these buildings, which are exclusively for women students, the total cost of board and rent of furnished rooms with heat and light varies from \$225 to \$300 a year. Both buildings are warmed by steam, lighted by electricity, and, in most cases, the sleeping apartment is separate from the study.

The University Adviser of Women has jurisdiction over all women students in the University, and women students are not permitted to board and lodge in houses in which men also board and lodge, unless for special reason approved by the Adviser.

Letters of inquiry in regard to board and rooms at Sage College and Sage Cottage should be addressed to The Business Manager of Sage College, Ithaca, N. Y.

SCHOLARSHIPS AND PRIZES

A special pamphlet on scholarships and prizes is published by the University. It may be had on application to the Registrar.

State Scholarships

Under the law of the State of New York the Commissioner of Education is empowered to award annually a number of free scholarships in Cornell University equal to the number of Assembly districts in the State of New York. Each scholarship entitles the holder to free tuition for four years beginning in the September immediately following the award of the scholarship.

All scholarship holders must satisfy the regular requirements for admission to one of the colleges of the University.

Holders of State Scholarships are notified that failure to register before the close of registration day of each term involves the severance of their connection with the University and consequently the forfeiture of their scholarships. The President of the University is required by law to send immediate notice of such vacancies to the Commissioner of Education and the Commissioner fills vacancies forthwith.

A State Scholarship holder, after regular registration at the University, may receive a leave of absence for the purpose of earning the necessary funds to defray his living expenses at the University. Such leave of absence may be granted at the beginning of the college course, but in that case the scholarship will not be extended for the period covered by the leave of absence; on the contrary, it will lapse at the expiration of four years from the date of its original award. If, however, leave of absence for the aforementioned purpose is granted after the holder has made a creditable record in the University for at least one year, his scholarship will be extended for a period not to exceed two years thus making the scholarship valid for a total period not to exceed six years from the date of the original award.

For particulars in regard to the awarding of State Scholarships, application should be made to the Commission of Education, Albany, N. Y.

University Undergraduate Scholarships

Eighteen University Undergraduate Scholarships, continuing for two years and of an annual value of \$200 each, are offered each year to members of the incoming freshman class. The award is made on the basis of a special competitive examination held in Ithaca in September between the period of the entrance examinations and the opening of the University.

All candidates for these scholarships must have full entrance to one of the colleges of the University.

Holders of New York State Scholarships are eligible for University Undergraduate Scholarships.

The University Undergraduate Scholarships will be awarded on the basis of examinations in three of the seven following subjects:

- (a). English. Entrance requirement. See page 7.
- (b). Greek. Greek grammar and Xenophon; composition and Homer. See page 9.

(c). Latin. Latin grammar and Caesar: composition and Cicero; Virgil. See page 9.

(d). French. Advanced entrance requirement. See page 10.

(e). German. Advanced entrance requirement. See page 10.

(f). Elementary mathematics. Algebra through quadratics and plane geometry. See pages 12 and 13.

(g). Advanced mathematics. Solid geometry, advanced algebra, and plane trigonometry. See pages 12 and 13.

In choosing three of these seven subjects, every candidate must take English and at least one of the other four languages; and any candidate who does not select either Latin or Greek must take advanced mathematics.

No scholarship will be awarded to any candidate who is reported markedly deficient in any subject in which he is examined, and the right is reserved to fill fewer than eighteen scholarships in the absence of a sufficient number of duly qualified candidates.

The holder of a University Undergraduate scholarship shall forfeit the right to the same in case said scholar shall during incumbency change the course registered in at the time of receiving the award, unless the records of entrance examinations shall show that, at the time of the holder's admission to the University, all the subjects required for admission to the course last chosen were passed. All candidates must state before the scholarships are awarded what course they intend to pursue.

All persons shall be debarred from the competition for these Scholarships who have participated in any previous competition for the same, or have been in the previous year or years registered as a student in this University or in any other University or College.

These Scholarships will be forfeited at any time in case two-thirds of the Faculty present at any meeting, notice having been given at the meeting immediately before, shall decide that the holders have been guilty of negligence, or failure to maintain a high standard of scholarship, or of conduct of any kind that is unbecoming students holding such scholarships.

Whenever any of these scholarships shall for any reason become vacant, the vacancy shall be filled as the Faculty may determine.

The moneys due on these scholarships are paid at the office of the Treasurer of the University in two equal payments, on the 20th of February and the 25th of June, but no scholarship holder is entitled to receive his semi-annual payment until the Scholarship Committee has examined and approved the holder's record for the preceding term, and until the chairman of the Scholarship Committee certifies that the record of the holder is satisfactory.

Special Undergraduate Scholarships

The following scholarships are likewise open to members of each incoming freshman class.

1. **The Frank William Padgham Scholarship.** This scholarship, founded in 1892 by Amos Padgham of Syracuse, N. Y., in memory of his son, Frank William Padgham, a graduate of Sibley College of the class of 1888, entitles the holder to free tuition and fees in the regular course in Sibley College of Mechanical Engineering. It cannot be held in connection with a New York

State Scholarship. The Frank William Padgham Scholarship will be awarded to the candidate who has had his preparatory education wholly or in part in the public schools of Syracuse, N. Y., and who having been admitted to the regular course in Sibley College, shall in competition pass the best examination in studies selected from those required for admission to Sibley College. These subjects are: 1. Advanced Mathematics, 2. Advanced German, 3. Advanced French, 4. Physics, 5. Chemistry. Of these subjects the candidate must take three including Advanced Mathematics and one of the Modern Languages. The examination for the Padgham Scholarship is held at the same time as the University Undergraduate Scholarship examinations; it is, however, a special examination and the candidate must declare his intention to enter the Padgham Scholarship examination and state his qualifications therefor to the Registrar who will issue the usual permit to enter the examination.

2. **State Grange Scholarships in Agriculture.** At its annual meeting, held February, 1910, the New York State Grange adopted a resolution whereby \$600 is to be given to members of the Order in the form of twelve scholarships in the winter courses in agriculture in Cornell University. The scholarships are each of the value of \$50, to be awarded to men or women who attain the highest standing in competitive examinations. The candidate should apply to the Master of the Pomona Grange in his home county, or to the Deputy in counties that have no Pomona.

The following undergraduate scholarships are not open to students at the beginning of their freshman year in the University. The special pamphlet on prizes and scholarships should be consulted for a full statement of the terms of eligibility in connection with each of them.

1. **The Alumnae Scholarship** of the annual value of \$100, to be awarded to a self-supporting woman who has spent at least one year in the University.

2. **The Boardman Senior Law Scholarship** of the annual value of \$100, to be awarded at the end of the junior year in the College of Law.

3. **The Roberts Scholarship Fund**, providing for five annual scholarships of the value of \$240 each, for students in the College of Agriculture. The award is made after the end of the first term of each year.

4. **The Buffalo Alumni Association Scholarship** of the annual value of \$200, for students who are residents of Erie or Niagara County, New York. The recipient must have been at least one year in some university. Cornell University is not responsible for the award or the payment of this scholarship.

Scholarships and Fellowships in the Graduate School

There are in the Graduate School seventeen scholarships of the annual value of \$300 each, and twenty-three fellowships of an annual value of from \$500 to \$600 each. For full information concerning these scholarships and fellowships the announcement of the Graduate School and the pamphlet on prizes and scholarships should be consulted.

Prizes

The special pamphlet on prizes and scholarships should be consulted for the terms of eligibility in connection with each of these.

1. **The Woodford Prize**, an annual prize in oratory consisting of a gold medal of the value of \$100.
2. **The '86 Memorial Prize in Declamation**, of the annual value of \$86.
3. **The '94 Memorial Prize in Debate**, of the annual value of about \$25.
4. **The Shakespeare Prize**, of the annual value of about \$50.
5. **The Guilford Essay Prize**, of the annual value of about \$150.
6. **The French Prize**. An annual prize consisting of a gold medal of the value of \$50.
7. **The Browning Prize**. An annual prize consisting of a gold medal of the value of \$50.
8. **The Luana L. Messenger Memorial Prize**, for the essay giving evidence of the best research and most fruitful thought in the field of human progress or the evolution of civilization. This is an annual prize of \$50.
9. **The Sherman Bennett Prize**. An annual prize consisting of the income on \$400, for the best essay discussing the principles of free government.
10. **The Frances Sampson Fine Arts Prize**. An annual prize of the value of about \$30, awarded to the student who shows the most intelligent appreciation of the graphic arts and architecture.
11. **The John Metcalf Polk Memorial Prizes**, awarded annually to students in the Medical College.
12. **The Horace K. White Prizes** of \$15 and \$10 respectively, awarded annually to the most meritorious students in the graduating class of the Veterinary College.
13. **The Sibley Prizes in Mechanic Arts**, of the annual value of \$100, awarded to students in the Sibley College of Mechanical Engineering.
14. **The Fuertes Medals**, awarded to students in the College of Civil Engineering.
15. **The Sands Memorial Medal**, awarded to students in the College of Architecture.
16. **The Brown Memorial Medal**, awarded to students in the College of Architecture.
17. **The Central New York Chapter A. I. A. Prize** of \$20, awarded annually to students in senior design in the College of Architecture.

FINANCIAL ASSISTANCE

The F. W. Guiteau Student Loan Fund. Through the generosity of the late Mr. Frederick W. Guiteau and his sister, the late Mrs. Nancy G. Howe, both of Irvington-on-Hudson, N. Y., a fund, known as the F. W. Guiteau Student Loan Fund, has been established in Cornell University, the income from which, amounting to about \$11,000 annually, is to be "used in advancing and assisting needful, worthy young men in pursuing their studies in said University".

The benefits of this fund are open to young men who have been in attendance at Cornell University for at least two years. Account is taken of the

applicant's character, scholastic record, and need of financial assistance. Loans are made primarily to cover tuition fees.

Official application blanks to be used in applying for aid from the F. W. Guiteau Student Loan Fund may be secured at the President's Office, and all applications should be addressed to the Student Loan Fund Committee, President's Office, Morrill Hall.

OPPORTUNITIES FOR SELF-SUPPORT

Many students earn the whole or a part of their expenses while attending the University. Opportunities for self-support occur chiefly in the line of personal services of various kinds, e.g., waiting at table, caring for furnaces, the management of various student enterprises, laundry agencies, etc. In practically all of the numerous student boarding houses, student waiters are employed, receiving their board in return for their services.

Students of fine scholarship occasionally have the opportunity of doing some tutoring in the latter part of their college course, and in some of the departments of the various colleges positions as student assistant with appropriate compensation are open to seniors of exceptional ability and attainments.

The Cornell University Christian Association, through its employment bureau, is always ready to assist students in search of work, and its Secretary will welcome any inquiries from male students with reference to opportunities for self-support. Women students in search of employment should address their inquiries to Mrs. G. S. Martin, University Adviser of Women, Sage College, Ithaca, N. Y.

THE UNIVERSITY LIBRARY

The University Library contains 375,000 volumes. The library is open on week days during the college year from 8 o'clock in the morning until 10.45 o'clock in the evening. Every convenience is offered to students to facilitate and encourage their use of the library books.

MILITARY DRILL, PHYSICAL EXERCISE, AND ATHLETICS

The University encourages every student to participate in some form of athletic exercises unless prevented by physical disability.

A careful physical examination is made of all new students and exercises are prescribed to meet their individual needs. All men and women who

desire to train for athletic competitions are examined by their respective medical examiners.

The new playground and athletic field covering 55 acres on the Campus within five minutes' walk of the quadrangle offers ample room for outdoor athletic games and exercises. The armory and the gymnasium are used for the indoor work during the winter months. Percy Field, a thoroughly equipped athletic field, covering 10 acres with club house, etc., is used for most of the intercollegiate contests. Women students have their separate gymnasium, boat-house, etc.

A particular effort is made to interest all students in physical exercises, not merely those of unusual physical ability who are attempting to become members of some of the organized athletic teams. An athletic league exists among the various colleges of the University and a series of athletic contests is carried on throughout the year. All students in the University except the 'varsity athletes may participate in these. The games consist of cross country running, association football, basketball, indoor athletics, baseball, track athletics, and rowing. Participation in these games as well as in such other games as tennis, lacrosse, handball, and golf, and in such forms of exercise as boxing, wrestling, and fencing, is regarded as fulfilling the requirements of the Department of Physical Culture.

The act of Congress of 1862 providing for the establishment of "Land Grant Colleges" requires that instruction be given in military science and tactics in all institutions that are its beneficiaries. At any such institution where a professor of military science and tactics is detailed by the War Department, it is required that the institution shall provide, in its regular schedule of studies, instruction in the military department for at least three hours a week for two years or the equivalent thereof.

In fulfilment of these provisions regular courses of instruction are offered by the commissioned officer of the regular army detailed at Cornell University as professor of military science and tactics, and in addition military drill during the freshman year is required of all male students in those colleges of the University which have four year courses. During their sophomore year these students have the option of taking part in military drill or of doing work in the Department of Physical Culture. Freshmen in those colleges which have three year courses have this same option.

Membership on the teams that represent the University in intercollegiate contests is by rigid competition. These intercollegiate sports consist of rowing, football, baseball, track athletics, lacrosse, basketball, cross country running, hockey, wrestling, fencing, association football, tennis, and swimming.

THE CORNELL INFIRMARY

The Cornell Infirmary is the former mansion of the late Henry Williams Sage, for many years chairman of the Board of Trustees of the University. At his death in 1897, his sons, Dean and William Henry Sage, endowed it

and gave it to the University for a students' Infirmary as a memorial to their father.

The Infirmary, which is in charge of an experienced superintendent, is thoroughly equipped in every way, and is open throughout the University year, as a home for students suffering from any except contagious diseases. (All cases of contagious disease are treated at the Ithaca City Hospital.)

For Infirmary fees see page 24.

THE SAGE CHAPEL AND BARNES HALL

Religious services, provided for by the Dean Sage Preachership Endowment, are conducted in Sage Chapel throughout the college year by eminent clergymen selected from the various religious denominations. These services are supplemented by the Cornell University Christian Association, a voluntary organization of students and professors formed for their own religious culture and the promotion of Christian living in the University. The Christian Association has its home in Barnes Hall; it has a permanent secretary and a carefully selected biblical library, also comfortable reading and recreation rooms. Bible study courses are carried on throughout the year. A committee of the Association, in attendance at Barnes Hall during the first week of each college year, offers its assistance to new students in the selection of rooming and boarding houses.

There is in addition to the Men's Christian Association, a flourishing Young Women's Christian Association, with quarters in Barnes Hall.

The students of the University are welcomed by the numerous churches in the city of Ithaca at all their services.

STUDENT FRATERNITIES, CLUBS, AND ORGANIZATIONS

There are nearly fifty fraternities at Cornell University. Membership in them is by invitation and election. Many of the fraternities have their own houses in which their members live.

The national literary and scientific societies, Phi Beta Kappa, Sigma Xi, and Tau Beta Pi have chapters at Cornell. In addition to these there are various college and departmental and class clubs of a literary or scientific nature. Membership in all of these is by election.

The musical and dramatic clubs of the University comprise the Glee Club, the Mandolin Club, the University Orchestra, the Masque, the Dramatic Club, the Deutscher Verein, Les Cabotins, and the English Club.

STUDENT PUBLICATIONS

THE CORNELL ERA, a literary magazine published monthly. The editors are chosen by competition.

THE CORNELL DAILY SUN, published daily except Sunday by a board of editors chosen from the senior, junior, and sophomore classes.

THE WIDOW, an illustrated humorous paper published bi-weekly. The editors are chosen by competition.

THE SIBLEY JOURNAL OF ENGINEERING, published monthly by a board of fourteen members chosen by competition from students in Sibley College.

THE CORNELL COUNTRYMAN, an illustrated monthly magazine published by students in the College of Agriculture.

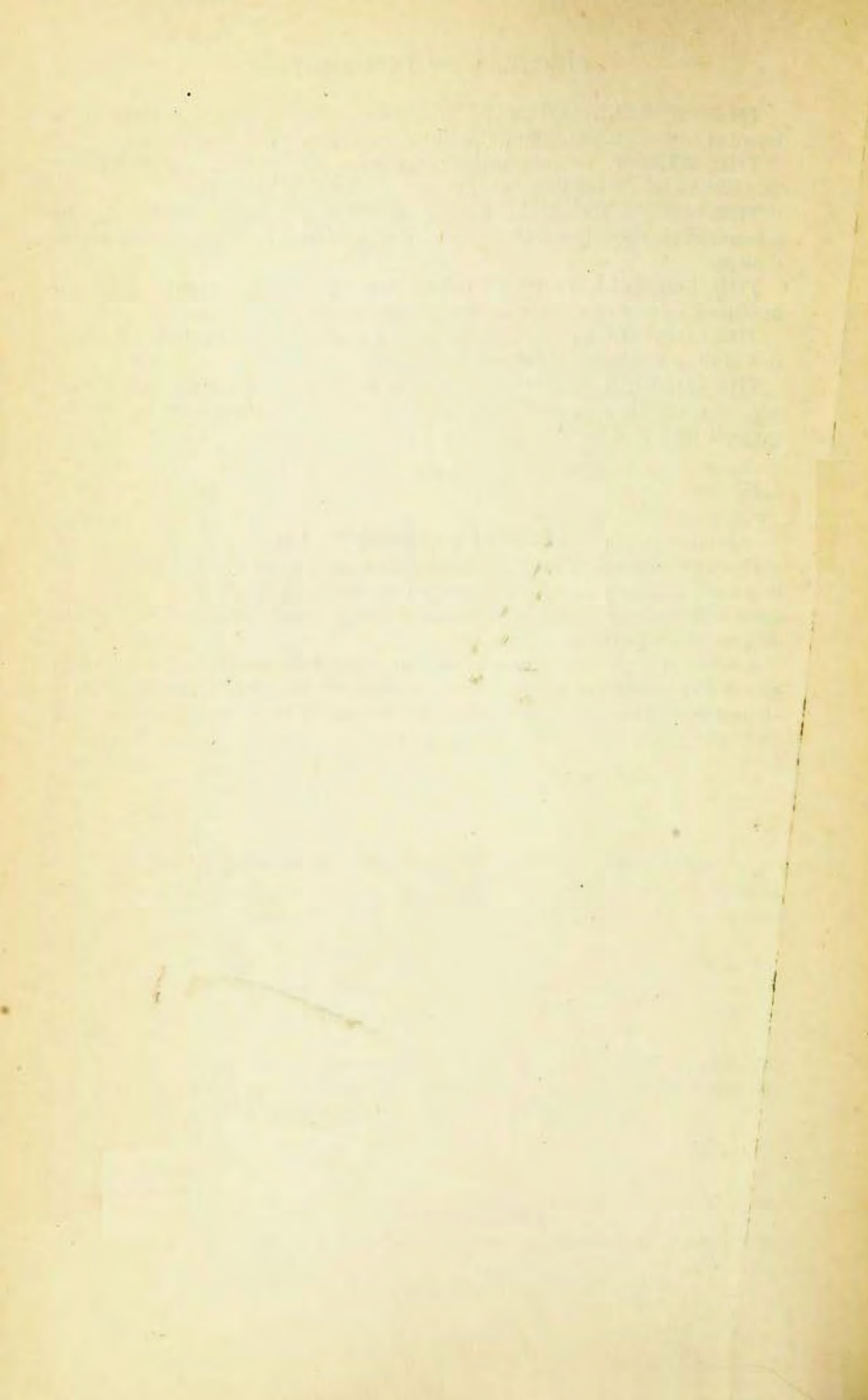
THE CORNELL CIVIL ENGINEER, published monthly by the Association of Civil Engineers of Cornell University.

THE CORNELL ALUMNI NEWS, issued weekly during the college year and monthly in July and August. The business manager is chosen by competition.

LECTURES, CONCERTS, ETC.

During the course of each year many men, native and foreign, of eminence in public and private life, are invited to lecture before the University or some of its colleges. These lectures are always free to students in all of the colleges of the University.

A series of musical concerts at various times during each year is provided by the Department of Music. Weekly organ recitals, with free admission to all members of the University, are given in Sage Chapel.





OFFICIAL PUBLICATIONS OF CORNELL UNIVERSITY

Issued at Ithaca, N. Y., monthly from July to November inclusive, and semi-monthly from December to June inclusive.

These publications include the annual Register, for which a charge of twenty-five cents a copy is made, and the following publications, any one of which will be sent gratis and post-free on request:

General Circular of Information for prospective students,
Announcement of the College of Arts and Sciences,
Courses of Instruction in the College of Arts and Sciences,
Announcement of Sibley College of Mechanical Engineering and the Mechanic Arts,
Announcement of the College of Civil Engineering,
Announcement of the College of Law,
Announcement of the College of Architecture,
Announcement of the Medical College,
Announcement of the New York State College of Agriculture,
Announcement of the Winter Courses in the College of Agriculture,
Announcement of the New York State Veterinary College,
Announcement of the Graduate School,
Announcement of the Summer Session,
The President's Annual Report,
Pamphlet on prizes, samples of entrance and scholarship examination papers, special departmental announcements, etc.
Correspondence concerning the publications of the University should be addressed to
The Registrar of Cornell University,
Ithaca, N. Y